ABSTRACT OF THE DISCLOSURE

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The object of the present invention is to provide a capacity control valve for a variable displacement compressor that controls flow rate without the need for increased solenoid power. A compact, low-cost capacity control valve is provided as an integrated structure of a first control valve and a second control valve. The first control valve, placed on a passageway of refrigerant discharged from a variable displacement compressor, functions as a variable orifice whose cross-sectional area can be set as desired by varying the power of a solenoid unit. Part of the refrigerant discharged at pressure PdH is supplied to the crank chamber, in which the pressure is The second control valve controls this refrigerant the crank chamber in such a way that the flow to differential pressure between upstream pressure PdH and downstream pressure PdL of the discharged refrigerant will be regulated at a specified level. This arrangement makes it possible to reduce the size of the solenoid unit because the first control valve does not need a large force to yield a small differential pressure that is required for operation.